# Index to Communications of the ACM

**VOLUME 10** • 1967

The Index is presented in three sections:

- I. Bibliography
- II. Author Index
- III. Department Index

ENTRIES are included for technical papers, reports and articles that appear in the Contents listings of the twelve issues of the year, plus letters to the editor of technical content. Algorithms are indexed separately in the Algorithms department; the 1967 index appears on page 802 of this December issue.

THE REFERENCE NUMBER for each entry is a key to the year, volume, issue, and page number of the item.

THE AUTHOR INDEX gives authors' names listed singly. For papers by multiple authors, each author's name appears in alphabetical order. Thus the fact that an author's name is followed by the title of an article does not mean that he is necessarily the only author of that article: he may be one of two or more authors.

IN THE DEPARTMENT INDEX the year's contents are arranged under the following headings: Communications technical departments (in alphabetical order); special reports; proceedings issues; and letters to the editor (of technical content only).

ACKNOWLEDGMENT. Appreciation is expressed to Dr. Aaron Finerman, director of the Computing Center of the State University of New York at Stony Brook, for generosity in providing computer time, and to Mr. Mark Feldman, student assistant at the Computing Center, for his time and interest in developing the program which produced this Index.

# I. BIBLIOGRAPHY

A UNIVERSITYS EDUCATIONAL PROGRAM IN COMPUTER SCIENCE \* FORSYTHE, G. E.

SYSTEM PERFORMANCE EVALUATION, SURVEY AND APPRAISAL \* CORRECTION IN APRIL 1967 P224 \* CALINGAERT, P.

A CODE FOR NON-MUMERIC INFORMATION PROCESSING APPLICATIONS IN ONLINE SYSTEMS \* MORENDEF, E. / MCLEAN, J. B.

AN INTERPRETATIVE INPUT ROUTINE FOR LINEAR PROGRAMMING \* AIGNER, D. J.

A UNIFYING COMPUTATIONAL METHOD FOR THE ANALYSIS OF COMPLETE FACTORIAL EXPERIMENTS \* COOPER, B. E.

DATA DIRECTED INPUT—OUTPUT IN FORTRAN \* HASSISTY, A.

MATFOR — THE UNIVERSITY OF WATERLOO FORTRAN IV COMPILER \* SHANTZ, P. W. / GERMAN, R. A. / MITCHELL,

J. G. / SHIRLEY, R. S. K. / ZARNKE, C. R.

DIRAN — A COMPILER EMPHASIZING DIAGNOSTICS \* MOULTON, P. G. / MULLER, M. E.

ON COMPUTING APPROXIMATIONS TO THE EXPONENTIAL FUNCTIONS \* CODY, W. J. / RALSTON, A.

AN NOTE ON THE COMPUTATION OF LEAST SQUARE POLYNOMIALS \* GOLDSBERG, M. BINGHAM, J. A. C.

ITME SHARING ON A COMPUTER WITH A SMALL MEMORY \* FISHER, R. D. / SHEPARD, C. D.

A USE OF FAST AND SLOW MEMORIES IN LIST—PROCESSING LANGUAGES \* COMEN, J.

ABAGUDS COMPUTATION IN NUMBER SYSTEMS OF BASES OTHER THAN TEN \* WING, J. 67 10 67 10 67 10 67 10 67 10 67 10 67 10 ABACUS COMPUTATION IN NUMBER SYSTEMS OF BASES OTHER THAN TEN \* WING, J. SORTING BY REPLACEMENT SELECTING \* GASSNER, B. J. SORTING BY REPLACEMENT SELECTING \* GASSNER, B. J.

PROBLEMS IN THE STATISTICAL ANALYSIS OF SIMULATION EXPERIMENTS, THE COMPARISON OF MEANS AND THE LENGTH OF
SAMPLE RECORDS \* FISHMAN, G. S.
INVARIANT IMBEDDING AND THE NUMERICAL INTEGRATION OF BOUNDARY-VALUE PROBLEMS FOR UNSTABLE LINEAR SYSTEMS OF
ORDINARY DIFFERENTIAL EQUATIONS \* BELLMAN, R. E. / KAGIMADA, H. H. / KALABA, R. E.

PARAMETERS FOR PSEUDO RUNGE-KUITA METHODS \* BYRNE, G. D.
27 BITS ARE NOT ENDUGH FOR \*DOLLY ACCURACY \* GOLDBERG, I. B.
A MODIFIED NEWTON METHOD FOR POLLYNOMIALS \* CORRECTION IN APRIL 1967 P224 \* EHRLICH, L. W.
PROGRAMMING THE TABULAR METHOD OF ANALYSIS OF VARIANCE FOR FACTORIAL EXPERIMENTS \* CARMER, S. G.
TESTING A RANDOM NUMBER GENERATOR \* GORENSTEIN, S.
COMPUTER REPRESENTATIONS OF PLANAR REGIONS BY THEIR SKELETONS \* PFALTZ, J. L. / ROSENFELD, A.
STAT-PACK, A BIOSTATISTICAL PROGRAMMING PACKAGE \* SHANNON, S. / HENSCHKE, C.
FORMAT EFFECTORS IN ISOT AND ASCII \* PYLE, I. C.

\*\*PANINI-BACKUS FORM\*\* SUGGESTED \* INGERMAN, P. Z.
ADDITIONAL COMMENTS ON A PROBLEM IN CONCURRENT PROGRAMMING CONTROL \* DE BRUIJN, N. G.
HORE ON PROCESSING 64-CHARACTER CARDS \* SCHARF, T. 67 10 2 67 10 67 10 67 10 67 10 ADDITIONAL COMMENTS ON A PROBLEM IN CONCURRENT PROGRAMMING CONTROL \* DE BRUIJN, N. G. MORE ON PROCESSING 64-CHARACTER CARDS \* SCHARF, T.

THE EMERGENCE OF A PROFESSION \* ORDEN, A.
APPLICATION OF LEVEL CHANGING TO A MULTILEVEL STORAGE ORGANIZATION \* MORENOFF, E. / MCLEAN, J. B.
STRUCTURE OF A LISP SYSTEM USING TWO-LEVEL STORAGE \* BOBROW, D. G. / MURPHY, D. L.
ON THE AUTOMATIC SIMPLIFICATION OF SOURCE-LANGUAGE PROGRAMS \* CLARK, E. R.
AUTOMATIC DIMENSIONING \* KLERER, M. / MAY, J.
AN APPLICATION OF FORMAC \* CORRECTION IN MAY 1967 P299 \* NEIDLEMAN, L. D.
AN EFFICIENT PROCEDURE FOR THE GENERATION OF CLOSED SUSSETS \* MAITE, W. M.
COMPUTER TYPESETTING OF ALGOL \* VON SYDOW, L.
METHODS OF EVALUATION OF STATISTICAL COMPUTATIONS IN FUNCTION ROUTINES \* FIKE, C. T.
ERROR-FREE METHODS FOR STATISTICAL COMPUTATIONS \* RODDEN, B. E.
TENSOR CALCULATIONS ON COMPUTERS, APPENDIX \* MALTON, J. J.
AN ALGORITHM FOR GENERATING ROOT LOCUS DIAGRAMS \* KRALL, A. M. / FORNARO, R.
ON 'SYSTEMATIC GENERATION OF HAMILTONIAN CIRCUITS' (LETTER, INCLUDES ROBERTS AND FLORES REPLY) \* TESLER,
L. G. ESC FACILITY IN USASCII \* BEMER, R. W.
A PROPOSAL FOR DEFINITIONS IN ALGOL \* GALLER, B. A. / PERLIS, A. J.
ONE-PASS COMPILATION OF ARITHMETIC EXPRESSIONS FOR A PARALLEL PROCESSOR \* STONE, H. S. 67 10 67 10 67 10 TOP-TO-BOTTOM PARSING REHABILITATED \* BROOKER, R. A.

```
SCHEDULING PROJECT NETWORKS * KLEIN, M. M.

A METHOD FOR THE SOLUTION OF TRANSPORTATION PROBLEMS WITH TALL MATRICES * DWYER, P. S. / GALLER, 8. A.

SCHEDULING UNIVERSITY COURSE EXAMINATIONS BY COMPUTER * HALL JR., A. D. / ACTON, F. S.

NUMERICAL INTEGRATION OF A FUNCTION THAT HAS A POLE * EISNER, E.

COMMENTS ON *LEVELS OF COMPUTER SYSTEMS' * BRIGGER, D. A.

FORTRAIN SUBROUTINES FOR SCALAR PRODUCTS * BUSINGER, D. A.
67
                                                                 231
                10
67
                 10
67 TO
                                                                239
67
                 10
                                                                  260
                                                                                                 COMMENTS ON "LEVELS OF COMPUTER SYSTEMS." ** BRIDGER, D. A.

AN EXPERIMENTAL COMPARISON OF TIME SHARING AND BATCH PROCESSING * SCHATZOFF, M. / TSAO, R. / WIIG, R.

FURTHER ANALYSIS OF A COMPUTING CEREE REVIRONMENT * WALTER, E. S. / WALLACE, V. L.

A MULTIPROGRAMMING MONITOR FOR SWALL MACHINES * HORNBUCKLE, G. D.

POSE, A LANGUAGE FOR POSING PROBLEMS TO A COMPUTER * SCHLESINGER, S. / SASHKIN, L.

PARALLEL NUMERICAL METHODS FOR THE SOLUTION OF EQUATIONS * SHEOLER, G. S.

ON THE COMPUTER ENUMERATION OF FINITE TOPOLOGIES * EVANS, J. W. / HARARY, F. / LYNN, M. S.

AN ALGORITHM FOR GENERATING PERMUTATIONS * LANGOON JR., G. G.

A SIMPLE TECHNIQUE FOR DIGITAL DIVISION * NANDI, S. K. / KRISHNAMURTHY, E. V.

STRING SIMILARITIES AND MISSPELLINGS * ALBERGA, C. N.

A MODEL FOR A MULTIFUNCTIONAL TEACHING SYSTEM * ENGVOLD, K. L. / HUGHES, J. L.

PITCH PERIOD DETERMINATION OF SPEECH SOUNDS * REDOV, D. R.

D. / LIVERIGHT, M.

PL I LIST PROCESSING * LANSON JR., H. M.

STURAGE ALLOCATION IN A CERTAIN ITERATIVE PROCESS * ABRAMOWICH, J.

A GENERALIZED BAIRSTON ALGORITHM * GOLUB, G. M. / ROBERTSON, T. N.

ON FORMAT EFFECTORS * BEMERR R. M.
67 10
                                                                 260
67
                10
                                                                 266
                                                                 273
67
                 10
                                                                 279
67
                 10
                                                                 295
                 10
 67
                 10
                                                                 299
                 10
 67
                 10
                                                                  339
67
                10
67
                 10
                10
 67
                                                                  BAR
                                                                                                STURAGE ALLOCATION IN A CERTAIN ITERATIVE PROCESS * ABRAMONICH, J. A GENERALIZED BAIRSTOM ALGORITHM * GOLUB, G. M. / ROBERTSON, T. N. ON FORMAT EFFECTORS * BEMER, R. M. ON BELMAMPS METHOD FOR UNSTABLE LINEAR SYSTEMS * WRIGHT, K. THE SIMULATION OF TIME SHARING SYSTEMS * NIELSEN, N. R. A USER-ORIENTED TIME-SHARED SYSTEM * BETVAR, L. STRING PROCESSING TECHNIQUES * MADNICK, S. E. IMPLEMENTING PHASE-STRUCTURE PRODUCTIONS IN PL I * IRWIN, L. PLOTTING A FUNCTION OF THREE INDEPENDENT VARIABLES * STINEMAN, R. W. ON THE REPRESENTATION OF SYMMETRIC POLYNOMIALS * MCKAY, J. K. S. OPTIMAL STARTING VALUES FOR NEWTON-RAPHSON CALCULATION OF CITED FUNCTION) * MOURSUND, D. G. A LANGUAGE—INDEPENDENT MACRO PROCESSOR * WALTE, W. M. DESCRIPTION OF BASIC ALGORITHM IN DETAB 65 PREPROCESSOR * CALLAHAN, M. D. / CHAPMAN, A. E. A METHOD FOR FINDING HAMILTON PATHS AND KNIGHT'S TOURS * POHL, I. THOUGHTS ON CONTINUOUS CHANGE SIMULATION LANGUAGES * TRUITT, T. D. BOMM AND JACOPINI'S REDUCTION OF FLOW CHARTS * COOPER, D. C. A CUMPUTER TECHNIQUE FOR DISPLAYING NOTHENSIONAL HYPEROBJECTS * NOLL, A. M. CONTEXTUAL UNDERSTANDING BY COMPUTERS * WEIZENBAUM, J. THE AED FREE STORAGE PACKAGE * ROSS, D. T. A NOTE ON COMPILING ALGORITHMS FOR ARITHMETIC EXPRESSIONS * NAKATA, I. A COMPARISON OF BATCH PROCESSING AND INSTANT TURNAROUND * SMITH, L. B. AN SEFICIENT MACRINE—INDEPENDENT PROCEDURE FOR GARBAGE COLLECTION IN VARIOUS LIST STRUCTURES * SCHORR, N. COLORDELISM THE FOR DEPENDENT PROCEDURE FOR GARBAGE COLLECTION IN VARIOUS LIST STRUCTURES * SCHORR, N. A MALTE, W. M.
                                                                  371
 67
 67
                10
                                                                  396
 67
                                                                    396
 67
                 10
                                                                 397
 67
                   10
                                                                  413
 67
                 10
                                                                  420
                   10
 67
                 10
                                                                  425
                   10
                                                                    428
 67
                 10
                                                                  430
                    10
 67
                 10
                                                                  441
                   10
 67
                 10
                                                                  463
                   10
 67
                 0.1
                                                                  469
 67
                 10
                                                                  481
 67
                 10
                                                                  495
                                                                                                  AN EFFICIENT MACHINE-INDEPENDENT PROCEDURE FOR GARBAGE COLLECTION IN VARIOUS LIST STRUCTUM. / WAITE, W. M., / WAITE, W. M. AND AND OH * BEMER, R. W. COMMENTS ON TIME SHARING * MCCARTHY, J. AND THE SHARING * MCCARTHY, J. AND THE ASPECT OF ECONOMICAL POLYNOMIALS * CODY JR., W. J. PRECISION CALCULATIONS OF E AND (CITED FUNCTION) CONSTANTS * YARBROUGH, L. TELE-CUPL, A TELEPHONE TIME SHARING SYSTEM * CONWAY, R. W. / MORGAN, M. L. COMPUTER FORMULATION OF THE EQUATIONS OF MOTION USING TENSOR NOTATION * HOHARD, J. C. A MICROPROGRAMMED IMPLEMENTATION OF EULER ON 18M SYSTEM 36 MODEL 30 * WEBER, M. A LANGUAGE FOR MODELING AND SIMULATING DYNAMIC SYSTEMS * PARENTE, R. J. / KRASNOW, M. S. AN ALGORITHM FOR CLASS SCHEDULING WITH SECTION PREFERENCE * BUSAM V. A. DYNAMIC COMPUTATION OF DERIVATIVES * LESK, A. M. A COMMENT ON INDEX REGISTER ALLOCATIONS * LUCCIO, F. DAD, THE C.S.I.*R.O. DPERRING SYSTEM * AUSTIN, B. J. / HOLDEN, T. M. / HUDSON, R. H.
                                                                  507
 67 10
 67
                 10
                                                                  513
                 10
 67
                                                                    531
                   10
  67
                 10
                                                                    537
                 10
                                                                    538
                                                                  543
549
 67
                 10
                   10
  67 10
                                                                    559
                   10
                                                                    567
  67 10
                                                                    571
                                                                                                  DYNAMIC COMPUTATION OF DERIVATIVES * LESK, A. M.

A COMMENT ON INDEX REGISTER ALLOCATIONS * LUCCIO, F.

DAD, THE C.S.I.R.O. DPERATING SYSIEM * AUSTIN, B. J. / HOLDEN, T. H. / HUDSON, R. H.

A MARKOVIAN MODEL OF THE UNIVERSITY OF HICHIGAN EXECUTIVE SYSTEM * FOLEY, J. D.

ON *NUMERICAL INTEGRATION OF A FUNCTION THAT HAS A POLE* (LETTER, INCLUDES EISNERS REPLY) * SQUIRE, W.

THE REMAINING TROUBLE SPOTS IN ALGOL 60 * KNUTH, D. E.

THE M. I MACRO PROCESSOR * BROWN, P. J.

DECOMPOSITION PROGRAMMING, AN ANALYSIS OF MATRIX SUBSTRUCTURE * BELL, E. J.

THREE FONTS OF COMPUTER DRAWN LETTERS * MATHEWS, M. V. / LOCHBAUM, C. / MOSS, J. A.

A GRAHMAR BASE QUESTION—ANSWERING PROCEDURE * ROSENBAUM, P. S.

MULTIPROGRAMMING UNDER A PAGE ON DEMAND STRATEGY * SMITH, J. L.

ON COMPUTING THE FAST FOURTER TRANSFORM * SINGLETON, R. S.

A STOPPING CRITERION FOR POLYMONIAL ROOT FINDING * ADAMS, D. A.

SHARER, A TIME SHARING SYSTEM FOR THE CDC 6600 * HARRISON, M. C. / SCHWARTZ, J. T.

IMPROVEMENTS BASED ON COMPUTED ERRORS * DE MATTEIS, A.

A RATIONAL APPROXIMATION OPTIMAL BY MOURSUNDS CRITERION * FIKE, C. T.

REMARK ON LANGDON'S ALGORITHM * DPD-SMITH, R. J.

M IN Z, A GAME FOR MAN—MACHINE STUDIES * NADDOR, E.

CHARACTER CODING FOR INFORMATION PROCESSING INTERCHANGE * PYLE, I. C.

GEORGE 3 — A GENERAL PURPOSE TIME SHARING AND OPERATING SYSTEM * DESTREICHER, M. D. / BAILEY,

M. J. / STRAUSS, J. I.

AN EXPERIMENTAL MODEL OF SYSTEM 360 * KATZ, J. H.

METHODS FOR ANALYZING DATA FROM COMPUTER SIMULATION EXPERIMENTS * NAYLOR, T. H. / MERTZ, K. / WONNACOTT,

I. H.

MITCHAUTIC DATA COMPRESSION * MARDON B. M. / DE MAINE, P. A. D.

MITCHAUTIC DATA COMPRESSION * MARDON B. A. / DE MAINE, P. A. D.

MITCHAUTIC DATA COMPRESSION * MARDON B. A. / DE MAINE, P. A. D.
                 10
                                                                    572
  67 10
                                                                    575
                 10
                                                                    584
  67 10 10
                                                                    610
   67 10
                                   10
                                                                    611
  67 10 10
                                                                    618
                    10
                                                                    624
  67 10 10
                                                                    627
                    10 10
                                                                    630
   67 10 10
                                                                    636
                     10 10
   67 10 10
                                                                    655
                    10 10
                                                                    659
   67
                    10 11
                                                                    ART
                     10 11
   67
                    10 11
                                                                    684
                                                                     684
  67
                    10 11
                                                                    684
                    10 11
  67 10 11
                                                                    694
                                                                     703
                                                                                                     T. H.

AUTOMATIC DATA COMPRESSION * MARRON, 8. A. / DE MAINE, P. A. D.

A COMPUTER SYSTEM FOR INFERENCE EXECUTION AND DATA RETRIEVAL * LEVIEN, R. E. / MARON, M. E.

ON THE EXPECTED GAIN FROM ADJUSTING MATCHED TERM RETRIEVAL SYSTEMS * SHUNNAY, R. H.

PROPOSED USA STANDARD RECORDED MAGNETIC TAPE FOR INFORMATION INTERCHANGE (200 CPI, NZRI) * CORRECTION IN

DECEMBER 1967 P783 * ASA X3.2

PROPOSED USA STANDARD MAGNETIC TAPE LABELS FOR INFORMATION INTERCHANGE * ASA X3.2

IMPLEMENTING PHASE—STRUCTURE PRODUCTIONS IN PL I * POHL, I.

A MULTIPROGRAMMING ENVIRONMENT FOR ONLINE DATA ACQUISITION AND ANALYSIS * LOCKEMANN, P. C. / KNUTSEN, W. D.

THE LACONIQ MONITOR, TIME SHARING FOR ONLINE DIALOGUES * DREW, D. L.

A SYSTEM ORGANIZATION FOR RESOURCE ALLOCATION * DAMM, D. M. / GERBSTADT, F. H. / PACELLI, M. M.

ALGGRITHMS FOR FINDING A FUNDAMENTAL SET OF CYCLES FOR AN UNDIRECTED LINEAR GRAPH * GOTLIEB, C. C. / CORNEIL.

D. G.
   67
                    10 11
                                                                     711
  67 10 11
                                                                     722
     67 10 11
                                                                      730
                                                                     737
                    10
                                                                       757
     67 10 12
                                                                      758
                    10 12
                                                                      765
   67 10 12
67 10 12
                                                                       772
                                                                                                          A SIMSCRIPT FORTRAN CASE STUDY * WEINERT, A. E.
     67 10 12
                                                                       784
                                                                                                      A SINGLIF FUNDAR CASE STUDY * MEINERT, A. E. AN ONLINE EDITOR * DEUTSCH, L. P. / LAMPSON, B. M. EIGENVECTORS OF A 2N X 2N MATRIX * CHARMONMAN, S. EIGENVECTORS OF A 2N X 2N MATRIX * CHARMONMAN, S. THE ALCOR ILLINOIS 7090 7094 POST MORTEM DUMP * BAYER, R. / GRIES, D. / PAUL, M. / WIEHLE, H. R. ON THE NORMALIZATION REQUIREMENT OF DIVISOR IN DIVIDE—AND—CORRECT METHODS * KRISHNAMURTHY, E. V. / NANDI,
   67 10 12
                                                                      793
                                                                      800
      67 10
                                      12
                                                                     804
      67 10 12
```

JMI

# II. AUTHOR INDEX

```
STORAGE ALLOCATION IN A CERTAIN ITERATIVE PROCESS SCHEDULING UNIVERSITY COURSE EXAMINATIONS BY COMPUTER A STOPPING CRITERION FOR POLYNOMIAL ROOT FINDING AN INTERPRETATIVE INPUT ROUTINE FOR LINEAR PROGRAMMING STRING SIMILARITIES AND MISSPELLINGS
                                              ARRAMOWICH. J.
67 10
                 4
                              368
                                               ACTON, F. S.
ADAMS, D. A.
67
        10 10
                              655
                                               AIGNER, D. J.
ALBERGA, C. N.
67 10
                               302
                                                                                                            PROPOSED USA STANDARD RECORDED MAGNETIC TAPE FOR INFORMATION INTERCHANGE (200 CPI, N
PROPOSED USA STANDARD MAGNETIC TAPE LABELS FOR INFORMATION INTERCHANGE
                                               ASA X3.2
ASA X3.2
67 10
                               730
67
        10
                11
                               737
                                                                                                            DAD, THE C.S.I.R.O. OPERATING SYSTEM
GEORGE 3 — A GENERAL PURPOSE TIME SHARING AND OPERATING SYSTEM
THE ALCOR ILLINOIS 7090 7094 POST MORTEM DUMP
DECOMPOSITION PROGRAMMING, AN ANALYSIS OF MATRIX SUBSTRUCTURE
        10
                               575
                                               AUSTIN, B. J. BAILEY, M. J.
                11
        10
67
                               685
                                              BAILEY, M. J.
BAYER, R.
BELL, E. J.
BELLMAN, R. E.
BEMER, R. W.
BEMER, R. W.
BEMER, R. W.
BETYAR, L.
BINGHAM, J. A. C.
BINGHAM, J. A. C.
       10
67
                               804
                10
67
                               624
                                                                                                            INVARIANT IMBEDDING AND THE NUMERICAL INTEGRATION OF BOUNDARY-VALUE PROBLEMS FOR UNS
ESC FACILITY IN USASCII
67
        10
                               100
        10
                               202
                                                                                                           ESC FACILITY IN USASCII
ON FORMAT EFFECTORS
TOMARD STANDARDS FOR HANDWRITTEM ZERO AND OH
A USER-ORIENTED TIME-SHARED SYSTEM
AN IMPROVEMENT TO ITERATIVE METHODS OF POLYNOMIAL FACTORIZATION
STRUCTURE OF A LISP SYSTEM USING TWO-LEVEL STORAGE
COMMENTS ON "LEVELS OF COMPUTER SYSTEMS"
TOP-TO-BOTTOM PARSING REHABILITATED
THE ML I MACAO PROCESSOR
AN ALGORITHM FOR CLASS SCHEDULING WITH SECTION PREFERENCE
FORTRAN SUBROUTINES FOR SCALAR PRODUCTS
PARAMETERS FOR PSEUDO RUNGE-KUTTA METHODS
SYSTEM PERFORMANCE EVALUATION. SUBVEY AND APPRAISAL & CORRECTION
67
67
        10
                               396
        10
                               513
                              413
 67
        10
                                               BOBROW, D. G.
BRIDGER, D. A.
BROOKER, R. A.
 67
        10
                               155
 67
        10
                               260
 67 10
                               223
                                               BROWN. P. J.
BUSAM V. A.
        10 10
                               618
 67 10
                               567
                               260
                                               BUSINGER. P. A.
 67 10
                               102
                                               BYRNE, G. D.
CALINGAERT,
                                                                                                            SYSTEM PERFORMANCE EVALUATION, SURVEY AND APPRAISAL * CORRECTION IN APRIL 1967 P224
DESCRIPTION OF BASIC ALGORITHM IN DETAB 65 PREPROCESSOR
 67 10
                               441
                                               CALLAHAN, M. D. CAMERON, S. H.
                                                                                                            DIALOG, A CONVERSATIONAL PROGRAMMING SYSTEM WITH A GRAPHICAL ORIENTATION PROGRAMMING THE TABULAR METHOD OF ANALYSIS OF VARIANCE FOR FACTORIAL EXPERIMENTS
 67 10
                               109
                                               CARMER. S. G.
                                                                                                            PROGRAMMING IME TABULAR METHOD OF AMALTSIS OF VARIANCE FOR P
PARSING OF DECISION TABLES
DESCRIPTION OF BASIC ALGORITHM IN DETAB 65 PREPROCESSOR
EIGENVECTORS OF A 2N X 2N MATRIX
ON THE AUTOMATIC SIMPLIFICATION OF SOURCE-LANGUAGE PROGRAMS
        10
                               507
                                               CHAPIN, N.
                                               CHAPMAN. A. E.
 67 10
                               441
 67 10 12
                                800
                                               CHARMONMAN, S.
                                               CLARK. E. R.
 67 10
                               160
                                                                                                            ON THE AUTOMATIC SIMPLIFICATION OF SOURCE-LANGUAGE PROGRAMS
ANOTHER ASPECT OF ECONOMICAL POLYMOMIALS
ON COMPUTING APPROXIMATIONS TO THE EXPONENTIAL FUNCTIONS
A USE OF FAST AND SLOW MEMORIES IN LIST-PROCESSING LANGUAGES
TELE-CUPL. A TELEPHONE TIME SHARING SYSTEM
A UNIFYING COMPUTATIONAL METHOD FOR THE ANALYSIS OF COMPLETE FACTORIAL EXPERIMENTS
BOHM AND JACOPINI'S REDUCTION OF FLOW CHARTS
        10
                                               CODY JR. . W. J.
 67
                                               CODY, N. J.
        10
                                  53
                                               COHEN, J.
CONWAY, R. W.
COOPER: B. E.
COOPER: D. C.
                                  82
 67
         10
                               538
          10
 67
          10
                                463
                                                                                                            BOHM AND JACOPINI'S REDUCTION OF FLOW CHARTS
ALGORITHMS FOR FINDING A FUNDAMENTAL SET OF CYCLES FOR AN UNDIRECTED LINEAR GRAPH
A SYSTEM ORGANIZATION FOR RESOURCE ALLOCATION
ADDITIONAL COMMENTS ON A PROBLEM IN CONCURRENT PROGRAMMING CONTROL
AUTOMATIC DATA COMPRESSION
                                               CORNEIL, D. G.
 67
         10 12
                                780
         10 12
 67
                                772
         10
                                137
                                               DE BRUIJN. N. G.
DE MAINE, P. A. D.
         10 11
 67
                                711
                                               DE MATTEIS, A.
DEUTSCH, L. P.
 67
        10 11
                                683
                                                                                                             IMPROVEMENTS BASED ON COMPUTED ERRORS AN ONLINE EDITOR
 67
                                                                                                             THE LACONIQ MONITOR, TIME SHARING FOR ONLINE DIALOGUES
A METHOD FOR THE SOLUTION OF TRANSPORTATION PROBLEMS WITH TALL MATRICES
A MODIFIED NEWTON METHOD FOR POLYNOMIALS * CORRECTION IN APRIL 1967 P224
NUMERICAL INTEGRATION OF A FUNCTION THAT HAS A POLE
 67
          10 12
                                765
                                               DREW. D. L.
DWYER. P. S.
 67
          10
                                231
 67
          10
                                107
                                                 EHRLICH, L. W.
 67
          10
                                239
                                                 EISNER. E.
                                                                                                             A MODEL FOR A MULTIFUNCTIONAL TEACHING SYSTEM ON THE COMPUTER ENUMERATION OF FINITE TOPOLOGIES
          10
                                339
                                                 ENGVOLD. K. L.
                                                                                                           A MODEL FOR A MULTIFUNCTIONAL TEACHING SYSTEM
ON THE COMPUTER ENUMERATION OF FINITE TOPOLOGIES
DIALOG, A CONVERSATIONAL PROGRAMMING SYSTEM WITH A GRAPHICAL ORIENTATION
METHODS OF EVALUATING POLYMOMIAL AMPROXIMATIONS IN FUNCTION ROUTINES
A RATIONAL APPROXIMATION OPTIMAL BY MOURSUNDS CRITERION
TIME SHARING ON A COMPUTER WITH A SMALL MEMORY
PROBLEMS IN THE STATISTICAL ANALYSIS OF SIMULATION EXPERIMENTS, THE COMPARISON OF ME
A MARKOVIAN MODEL OF THE UNIVERSITY OF MICHIGAN EXECUTIVE SYSTEM
AN ALGORITHM FOR GENERATING ROOT LOCUS DIAGRAMS
A UNIVERSITYS EDUCATIONAL PROGRAM IN COMPUTER SCIENCE
A PROPOSAL FOR DEFINITIONS IN ALGOL
A METHOD FOR THE SOLUTION OF TRANSPORTATION PROBLEMS WITH TALL MATRICES
SORTING BY REPLACEMENT SELECTING
A SYSTEM ORGANIZATION FOR RESOURCE ALLOCATION
WATFOR — THE UNIVERSITY OF MATERLOO FORTRAN IV COMPILER
27 BITS ARE NOT ENOUGH FOR 8—DIGIT ACCURACY
A NOTE ON THE COMPUTATION OF LEAST SQUARE POLYNOMIALS
A GENERALIZED BAIRSTOM ALGORITHM
TESTING A RANDOM NUMBER GENERATOR
ALGORITHMS FOR FINDING A FUNDAMENTAL SET OF CYCLES FOR AN UNDIRECTED LINEAR GRAPH
THE ALCOR ILLINOIS 7090 7094 POST MORTEM DUMP
SCHEDULING UNIVERSITY COURSE EXAMINATIONS BY COMPUTER
ON THE COMPUTER ENUMERATION OF FINITE TOPOLOGIES
SUARDED. A TIME SWARDLE SYSTEM FOR THE FORCAMON
 67
          10
                                295
                                                 EVANS, J. W. EWING, D.
                                349
 67
          10
                                                 FIKE, C. T.
FIKE, C. T.
FISHER, R. O.
 67
          10
  67
          10 11
 67
          10
                                                 FISHMAN, G. S. FOLEY, J. D.
 67 10
                                   94
                                584
  67
          10
                                                 FORNARD, R.
FORSYTHE, G. E.
  67
          10
  67
          10
  67
          10
                                204
                                                 GALLER, B. A. GALLER, B. A.
                                231
          10
  67
  67
          10
                                                 GASSNER. B.
                                                 GERBSTADT. F. H.
                                772
  67
          10
                 12
                                                 GERMAN, R. A.
GOLDBERG, I. 8.
  67 10
                                   41
                                105
  67
          10
  67
          10
                                   56
                                                 GOL DB ERG. M.
                                                 GOLUB, G. H.
GORENSTEIN, S.
                                371
  67
          10
  67
          10
                                111
                                                 GOTLIEB, C. C.
                  12
  67
                                 804
                                                 GRIES, D.
HALL JR., A. D.
  67
          10 12
          10
                                 235
                                                                                                            SCHEDULING UNIVERSITY COURSE EXAMINATIONS BY COMPUTER
ON THE COMPUTER ENUMERATION OF FINITE TOPOLOGIES
SHARER, A TIME SHARING SYSTEM FOR THE CDC 6600
DATA DIRECTED INPUT-OUTPUT IN FORTRAN
STAT-PACK, A BIOSTATISTICAL PROGRAMMING PACKAGE
DAD, THE C.S.I.R.O. OPERATING SYSTEM
A MULTIPROGRAMMING MONITOR FOR SMALL MACHINES
COMPUTER FORMULATION OF THE EQUATIONS OF MOTION USING TENSOR NOTATION
DAD, THE C.S.I.R.O. OPERATING SYSTEM
A MODEL FOR A MULTIPUNCTIONAL TEACHING SYSTEM
'PANINI-BACKUS FORM' SUGGESTED
INPLEMENTING PHASE-STRUCTURE PRODUCTIONS IN PL I
INVARIANT IMBEDIANG AND THE NUMERICAL INTEGRATION OF BOUNDARY-VALUE PR
  67
  67
          10
                                295
                                                 HARARY, F.
HARRISON, M. C.
                 10
                                                 HASSITT, A.
HENSCHKE, C.
HOLDEN, T. H.
HORNBUCKLE, G. D.
  67
          10
                                   35
          10
          10
  67
                                 575
  67
                                 273
  67
          10
                                 543
                                                 HOWARD, J. C. HUDSON, R. H.
           10
                                 575
  67
                                                 HUGHES, J. L.
INGERMAN, P. Z.
           10
                                 339
           10
                                  137
  67
                                                  IRWIN, L.
KAGIWADA, H. H.
           10
                                 424
           10
                                  100
                                                                                                               INVARIANT IMBEDDING AND THE NUMERICAL INTEGRATION OF BOUNDARY-VALUE PROBLEMS FOR UNS
INVARIANT IMBEDDING AND THE NUMERICAL INTEGRATION OF BOUNDARY-VALUE PROBLEMS FOR UNS
                                                 KALABA, R. E.
KATZ, J. H.
  67
           10
                                 100
                                                                                                               AN EXPERIMENTAL MODEL OF SYSTEM 360 SCHEDULING PROJECT NETWORKS
  67
           10 11
                                  694
                                                  KLEIN, M. M.
KLERER, M.
  67
           10
                                 225
           10
                                                                                                               AUTOMATIC DIMENSIONING
  67
                                  165
                                                                                                              AUTOMATIC DIMENSIONING
THE REMAINING TROUBLE SPOTS IN ALGOL 60
A MULTIPROGRAMMING ENVIRONMENT FOR ONLINE DATA ACQUISITION AND ANALYSIS
AN ALGORITHM FOR GENERATING ROOT LOCUS DIAGRAMS
A LANGUAGE FOR MODELING AND SIMULATING DYNAMIC SYSTEMS
A SIMPLE TECHNIQUE FOR DIGITAL DIVISION
                                                 KNUTH, D. E.
KNUTSEN, W. D.
KRALL, A. M.
KRASNOW, H. S.
  67
           10 10
                                 611
758
           10 12
  67
           10
                                  186
           10
  67
           10
                                  299
                                                  KRISHNAMURTHY. E. V.
KRISHNAMURTHY. E. V.
           10
                   12
                                                                                                                 ON THE NORMALIZATION REQUIREMENT OF DIVISOR IN DIVIDE-AND-CORRECT METHODS
                   12
                                                  LAMPSON. B. W.
LANGDON JR., G. G.
   67
           10
                                  793
                                                                                                               AN ONLINE EDITOR
                                                                                                               AN ALGORITHM FOR GENERATING PERMUTATIONS
```

т.

IN

W. D.

ORNE IL.

DI.

r, 1967

```
67 10
                                                      LAWSON JR. H. W.
                                                                                                                             PL I LIST PROCESSING
DYNAMIC COMPUTATION OF DERIVATIVES
A COMPUTER SYSTEM FOR INFERENCE EXECUTION AND DATA RETRIEVAL
DIALOG. A CONVERSATIONAL PROGRAMMING SYSTEM WITH A GRAPHICAL ORIENTATION
THREE FONTS OF COMPUTER DRAWN LETTERS
A MULTIPROGRAMMING ENVIRONMENT FOR ONLINE DATA ACQUISITION AND ANALYSIS
A COMMENT ON INDEX REGISTER ALLOCATIONS
ON THE COMPUTER ENUMERATION OF FINITE TOPOLOGIES
STRING PROCESSING TECHNIQUES
A COMPUTER SYSTEM FOR INFERENCE EXECUTION AND DATA RETRIEVAL
                                                                                                                              PL I LIST PROCESSING
                                                      LESK. A. M.
LEVIEN. R. E.
         10
         10 11
67
                                    715
                                   349
                                                       LIVERIGHT, M.
         10
                   10
                                                       LOCHBAUM. C.
         10
         10
                                    758
                                                       LOCKEMANN. P. C.
                   12
                                    572
                                                       LUCCIO. F.
67
67
         10
                                    295
                                                       LYNN. M. S.
MADNICK, S. E.
         10
                                                       MARON. M. E.
MARRON. B. A.
67
         10
                   1.1
                                    715
                                    711
                                                                                                                              AUTOMATIC DATA COMPRESSION
THREE FONTS OF COMPUTER DRAWN LETTERS
67
         10
                   11
         10
                                   627
67
                   10
                                                       MATHEWS. M.
                                                      MAY, J.

MCKAY, J.

MCKAY, J. K. S.

MCLEAN, J. 8.

MCLEAN, J. 8.
                                                                                                                                AUTOMATIC DIMENSIONING
67
67
         10
                                    531
                                                                                                                              COMMENTS ON TIME SHARING

ON THE REPRESENTATION OF SYMMETRIC POLYNOMIALS
A CODE FOR NON-MUMERIC INFORMATION PROCESSING APPLICATIONS IN ONLINE SYSTEMS
APPLICATION OF LEVEL CHANGING TO A MULTILEVEL STORAGE ORGANIZATION
MATFOR — THE UNIVERSITY OF MATERICHO FORTRAN IV COMPILER
A CODE FOR NON-NUMERIC INFORMATION PROCESSING APPLICATIONS IN ONLINE SYSTEMS
APPLICATION OF LEVEL CHANGING TO A MULTILEVEL STORAGE ORGANIZATION
TELE—CUPI. A TELEPHONE TIME SHARING SYSTEM
THREE FONTS OF COMPUTER DRAWN LETTERS
                                                                                                                              COMMENTS ON TIME SHARING
         10
                                    428
67
         10
                                      19
         10
67
         10
                                      41
                                                       MITCHELL. J. G. MORENOFF, E.
          10
                                                       MORENOFF, E.
NORGAN, H. L
67
         10
                                    149
          10
                                    538
                                                      MOSS. J. A.
MOULTON. P. G.
MOURSUND. D. G
MULLER, M. E.
MURPHY, D. L.
67
         10
                   10
                                    627
                                                                                                                              THREE FONTS OF COMPUTER DRAWN LETTERS
DITRAN — A COMPILER EMPHASIZING DIAGNOSTICS
OPTIMAL STARTING VALUES FOR NEWTON—RAPHSON CALCULATION OF (CITED FUNCTION)
DITRAN — A COMPILER EMPHASIZING DIAGNOSTICS
STRUCTURE OF A LISP SYSTEM USING TWO—LEVEL STORAGE
M IN Z, A GAME FOR MAN—MACHINE STUDIES
A NOTE ON COMPILING ALGORITHMS FOR ARITHMETIC EXPRESSIONS
67
         10
                                    430
                                                                                                G.
                                   45
         10
67
         10
                                                       NADDOR, E.
                   11
67
          10
                                    492
                                                                                                                              A NOTE ON COMPILING ALGORITHMS FOR ARITHMETIC EXPRESSIONS
A SIMPLE TECHNIQUE FOR DIGITAL DIVISION
ON THE NORMALIZATION REQUIREMENT OF DIVISOR IN DIVIDE—AND—CORRECT METHODS
METHODS FOR ANALYZING DATA FROM COMPUTER SIMULATION EXPERIMENTS
AN APPLICATION OF FORMAC & CORRECTION IN MAY 1967 P299
THE SIMULATION OF TIME SHARING SYSTEMS
A COMPUTER TECHNIQUE FOR DISPLAYING N—DIMENSIONAL HYPEROBJECTS
GEORGE 3 — A GENERAL PURPOSE TIME SHARING AND OPERATING SYSTEM
REMARK ON LANGDON'S ALGORITHM
THE EMBEDIANCE FOR A PROFESSION
                                                       NANDI. S. K.
NANDI. S. K.
                                    299
         10 12
67
                                    809
                                                       NAYLOR, T. H.
NEIDLEMAN, L. D.
67
          10
                   11
                                    703
67
         10
                                    167
67
         10
                                    397
                                                       NIELSEN. N. R.
NOLL, A. M.
67
         10
                                    469
67
         10 11
                                    685
                                                       DESTREICHER. M. D.
                                                       ORD-SMITH, R. J.
                                                                                                                              REMARK ON LANGDON'S ALGORITHM
THE EMERGENCE OF A PROFESSION
A SYSTEM ORGANIZATION FOR RESOURCE ALLOCATION
A LANGUAGE FOR MODELING AND SIMULATING DYNAMIC SYSTEMS
THE ALCOR ILLINOIS 7090 7094 POST MORTEM DUMP
A PROPOSAL FOR DEFINITIONS IN ALGOL
COMPUTER REPRESENTATIONS OF PLANAR REGIONS BY THEIR SKELETONS
A METHOD FOR FINDING HAMILTON PATHS AND KNIGHT'S TOURS
IMPLEMENTING PHASE—STRUCTURE PRODUCTIONS IN PL I
CHARACTER CODING FOR INFORMATION PROCESSING INTERCHANGE
ON COMPUTING APPROXIMATIONS TO THE EXPONENTIAL FUNCTIONS
67
         10 11
                                    684
                                    145
 67
         10
                                                       ORDEN. A.
                                                       PACELLI. M. M.
PARENTE, R. J.
         10 12
67
 67
         10
                                    559
          10 12
 67
                                    804
                                                        PAUL . M.
 67
         10
                                    204
                                                       PERLIS, A. J. PFALTZ, J. L.
                                    119
 67
          10
 67
          10
                                                        POHL. I.
 67
           10 12
                                      757
                                                        POHL. I.
67 10 3
67 10 11
                                                       PYLE. I. C.
PYLE. I. C.
                                    137
                                    554
                                                                                                                               ON COMPUTING APPROXIMATIONS TO THE EXPONENTIAL FUNCTIONS PITCH PERIOD DETERMINATION OF SPEECH SOUNDS
 67
          10
                                       53
                                                        RALSTON. A.
                                    343
 67
           10
                                                        REDDY. D. R.
                                                       ROBERTSON, T. N.
RODDEN, B. E.
ROSENBAUM, P. S.
                                                                                                                                A GENERALIZED BAIRSTOW ALGORITHM
ERROR-FREE METHODS FOR STATISTICAL COMPUTATIONS
 67
         10
                                     371
                                     179
 67
          10
                                                                                                                                A GRAMMAR BASE QUESTION-ANSWERING PROCEDURE COMPUTER REPRESENTATIONS OF PLANAR REGIONS BY THEIR SKELETONS
 67
          10 10
                                     630
                                                                                                                              A GRAMMAR BASE QUESTION-ANSWERING PROCEDURE
COMPUTER REPRESENTATIONS OF PLANAR REGIONS BY THEIR SKELETONS
THE AED FREE STORAGE PACKAGE
POSE, A LANGUAGE FOR POSING PROBLEMS TO A COMPUTER
MORE ON PROCESSING 64-CHARACTER CARDS
AN EXPERIMENTAL COMPARISON OF TIME SHARING AND BATCH PROCESSING
POSE, A LANGUAGE FOR POSING PROBLEMS TO A COMPUTER
AN EFFICIENT MACHINE-INDEPENDENT PROCEDURE FOR GARBAGE COLLECTION IN VARIOUS LIST ST
SHARER, A TIME SHARING SYSTEM FOR THE COC 6000
STAT-PACK, A BIOSTATISTICAL PROGRAMMING PACKAGE
MATFOR - THE UNIVERSITY OF MATERIOD FORTRAN IV COMPILER
PARALLEL NUMERICAL METHODS FOR THE SOLUTION OF EQUATIONS
TIME SHARING ON A COMPUTER MITH A SMALL MEMORY
WATFOR - THE UNIVERSITY OF MATERIOD FORTRAN IV COMPILER
ON THE EXPECTED GAIN FROM ADJUSTING MATCHED TERM RETRIEVAL SYSTEMS
ON COMPUTING THE FAST FOURIER TRANSFORM
MULTIPROGRAMMING UNDER A PAGE ON DEMAND STRATEGY
A COMPARISON OF BATCH PROCESSING AND INSTANT TURNAROUND
ON 'NUMERICAL INTEGRATION OF A FUNCTION THAT HAS A POLE' LLETTER, INCLUDES EISNERS R
PLOTTING A FUNCTION OF THREE INDEPENDENT VARIABLES
ONE-PASS COMPILATION OF ARITHMETIC EXPRESSIONS FOR A PARALLEL PROCESSOR
GEORGE 3 - A GENERAL PURPOSE TIME SHARING AND OPERATING SYSTEM
ON 'SYSTEMATIC GENERATION OF HAMILTONIAN CIRCUITS' (LETTER, INCLUDES ROBERTS AND FLO
THOUGHTS ON CONTINUOUS CHANGE SIMULATION LANGUAGES
AN EXPERIMENTAL COMPARISON OF TIME SHARING AND BATCH PROCESSING
COMPUTER TYPESETTING OF ALGOL
                                                        ROSENFELD, A.
           10
                                    119
                                    481
                                                       ROSS, D. T.
SASHKIN, L.
 67
          10
 67
           10
 67
          10
                                    138
                                                        SCHARF, T.
SCHATZOFF, M.
 67
           10
                                     261
 67
          10
                                     279
                                                        SCHLESINGER, S.
                                     501
                                                        SCHORR, H.
 67
           10 10
                                     659
                                                        SCHWARTZ, J. T.
                                                        SHANNON, S. SHANTZ, P. W.
           10
                                    123
 67
           10
                                        41
                                                       SHANTZ, P. W.
SHEDLER. G. S.
SHEPARD. C. D.
SHIRLEY. R. S. K.
SHUMWAY, R. H.
SINGLETON, R. S.
 67
           10
                                     286
          10
  67
                                        77
                                         41
 67
          10 11
 67
                                    722
                                    647
  67
                                                        SMITH, J. L.
SMITH, L. B.
  67
           10
                    10
                                     636
            10
                                                        SQUIRE, W.
STINEMAN, R. W.
STONE, H. S.
  67
           10 10
                                     610
           10
                                      425
  67
           10
                                     220
            10
                     11
                                                          STRAUSS. J.
                                                        TESLER, L. G.
TRUITT, T. D.
TSAO, R.
VON SYDOW, L.
  67
           10
                                      201
            10
                                      463
  67
           10
                                      261
                                                                                                                                AN EXPERIMENTAL CUMPARISON OF TIME SHARING AND BATCH PROCESSING
COMPUTER TYPESETING OF ALGOL
AN EFFICIENT PROCEDURE FOR THE GENERATION OF CLOSED SUBSETS
A LANGUAGE—INDEPENDENT MACRO PROCESSOR
AN EFFICIENT MACRINE—INDEPENDENT PROCEDURE FOR GARBAGE COLLECTION IN VARIOUS LIST ST
           10
                                                       WAITE, W. M.
WAITE, W. M.
WAITE, W. M.
WALLACE, V. L.
  67
           10
                                      169
            10
                                      433
  67
           10
                                      501
                                                                                                                                AN EPPICIENT MACHINE-INDEPENDENT PROCEDURE FOR GARBAGE COLLECTION IN FORTHER ANALYSIS OF A COMPUTING CENTER ENVIRONMENT FURTHER ANALYSIS OF A COMPUTING CENTER ENVIRONMENT TENSOR CALCULATIONS ON COMPUTERS, APPENDIX A MICROPROGRAMMED IMPLEMENTATION OF EULER ON IBM SYSTEM 360 MODEL 30
            10
  67
            10
                                      266
                                                         WALTER, E. S. WALTON, J. J.
           10
                                      183
  67
  67
           10
                                      549
                                                          WEBER, H.
                                                                                                                                A MICROPROGRAMMED IMPLEMENTATION OF EULER ON IBM SYSTEM 360 MODIA SIMSCRIPT FORTRAN CASE STUDY CONTEXTUAL UNDERSTANDING BY COMPUTERS METHODS FOR ANALYZING DATA FROM COMPUTER SIMULATION EXPERIMENTS THE ALCOR ILLINOIS 7090 7094 POST MORTEM DUMP AN EXPERIMENTAL COMPARISON OF TIME SHARING AND BATCH PROCESSING ABACUS COMPUTATION IN NUMBER SYSTEMS OF BASES OTHER THAN TEN METHODS FOR ANALYZING DATA FROM COMPUTER SIMULATION EXPERIMENTS ON BELLMAN'S METHOD FOR UNSTABLE LINEAR SYSTEMS PROFESSION CALCULATIONS OF EARD (CLYED ENJOYCTION) CONSTANTS
            10 12
  67
           10
                                      474
                                                          WEIZENBAUM. J.
                                      703
                                                         WERTZ, K.
WIEHLE, H. R.
  67
           10
                     12
                                      1104
                                                          WIIG, R.
WING, J.
WONNACOTT, T. H.
           10
  67
            10
                                         85
  67 10 11
                                      703
                                                          WRIGHT, K.
  67
           10
                                      195
                                      537
                                                                                                                                 PRECISION CALCULATIONS OF E AND (CITED FUNCTION) CONSTANTS WATFOR - THE UNIVERSITY OF WATERLOO FORTRAN IV COMPILER
                                                          ZARNKE. C. R.
  67
            10
                                         41
```

МΙ

# III. DEPARTMENT INDEX

### BUSINESS APPLICATIONS

- 67 10 1 23
- 67 10 94
- 172
- 67 10 231
- 67 10 235
- 67 10 441
- 67 10 507
- 67 10 559
- 67 10 567
- 67 10 10 624
- AN INTERPRETATIVE INPUT ROUTINE FOR LINEAR PROGRAMMING \* AIGNER, D. J.
  SORTING BY REPLACEMENT SELECTING \* GASSNER, B. J.
  PROBLEMS IN THE STATISTICAL ANALYSIS OF SIMULATION EXPERIMENTS, THE COMPARISON OF MEANS AND THE LENGTH OF
  SAMPLE RECORDS \* FISHMAN, G. S.
  COMPUTER TYPESETTING OF ALGOL \* VON SYDOM, L.
  SCHEDULING PROJECT NETWORKS \* KLEIN, M. M.
  A METHOD FOR THE SOLUTION OF TRANSPORTATION PROBLEMS WITH TALL MATRICES \* DWYER, P. S. / GALLER, B. A.
  SCHEDULING UNIVERSITY COURSE EXAMINATIONS BY COMPUTER \* HALL JR., A. D. / ACTON, F. S.
  DESCRIPTION OF BASIC ALGORITHM IN DETAB 65 PERPROCESSOR \* CALLAHAN, M. D. / CHAPMAN, A. E.
  A METHOD FOR FINDING HAMILTON PATHS AND KNIGHT\*S TOURS \* POHL, I.
  PARSING OF DECISION TABLES \* CHAPIN, N.
  A LANGUAGE FOR MODELING AND SIMULATING DYNAMIC SYSTEMS \* PARENTE, R. J. / KRASNOW, M. S.
  AN ALGORITHM FOR CLASS SCHEDULING WITH SECTION PREFERENCE \* BUSAM V A.
  DECOMPOSITION PROGRAMMING, AN ANALYSIS OF MATRIX SUBSTRUCTURE \* BELL, E.
  METHODS FOR ANALYZING DATA FROM COMPUTER SIMULATION EXPERIMENTS \* NAYLOR, T. M. / WERTZ, K. / WONNACOTT,
  T. M. 67 10 11 703
- T. H. A SIMSCRIPT FORTRAN CASE STUDY \* WEINERT, A. E. 67 10 12

#### COMPUTATIONAL LINGUISTICS

- 67 10 5 302
- STRING SIMILARITIES AND MISSPELLINGS \* ALBERGA, C. N.
  CONTEXTUAL UNDERSTANDING BY COMPUTERS \* MEIZENBAUM, J.
  THREE FONTS OF COMPUTER DRAWN LETTERS \* MATHEMS, M. V. / LOCHBAUM, C. / MOSS, J. A.
  A GRAMMAR BASE QUESTION—ANSWERING PROCEDURE \* ROSENBAUM, P. S. 67 10 8 627

### COMPUTER SYSTEMS

- SYSTEM PERFORMANCE EVALUATION, SURVEY AND APPRAISAL \* CORRECTION IN APRIL 1967 P224 \* CALINGAERT, P.
  TIME SHARING ON A COMPUTER WITH A SHALL MEMORY \* FISHER, R. O. / SHEPARD, C. D.
  APPLICATION OF LEVEL CHANGING TO A MULTILEVEL STORAGE ORGANIZATION \* MORENOFF, F. / MCLEAN, J. B.
  FURTHER ANALYSIS OF A COMPUTING CENTER ENVIRONMENT \* MALTER, E. S. / MALLACE, V. L.
  A MULTIPROGRAMMING MONITOR FOR SHALL MACHINES \* HORNBUCKLE, G. D.
  THE SIMULATION OF TIME SHARING SYSTEMS \* NIELSEN, N. R.
  A USER-ORIENTED TIME-SHARED SYSTEM \* BETYAR, L.
  A COMPARISON OF BATCH PROCESSING AND INSTANT TURNARDUND \* SMITH, L. B.
  A MARKOVIAN MODEL OF THE UNIVERSITY OF MICHIGAN EXECUTIVE SYSTEM \* FOLEY, J. D.
  MULTIPROGRAMMING UNDER A PAGE ON DEMAND STRATEGY \* SMITH, J. L.
  AN EXPERIMENTAL MODEL OF SYSTEM 360 \* KATZ, J. H.
  A MULTIPROGRAMMING ENVIRONMENT FOR ONLINE DATA ACQUISITION AND ANALYSIS \* LOCKEMANN, P. C. / KNUTSEN, W. D. 67 10
- 67 10 149
- 67 10 266
- 67 10 5 273
- 67 10 413 495
- 10 10 584
- 10 10
- 67 10 11 694

# EDUCATION

TST

25 8

FLO

T ST

r, 1967

- 67 10 1
- A UNIVERSITYS EDUCATIONAL PROGRAM IN COMPUTER SCIENCE \* FORSYTHE, G. E. THE EMERGENCE OF A PROFESSION \* ORDEN A. MODEL FOR A MULTIFUNCTIONAL TEACHING SYSTEM \* ENGVOLD, K. L. / HUGHES, J. L. 67 10 6 339

# INFORMATION RETREVIAL

- 67 10 11
- AUTOMATIC DATA COMPRESSION \* MARRON, B. A. / DE MAINE, P. A. D.
  A COMPUTER SYSTEM FOR INFERENCE EXECUTION AND DATA RETRIEVAL \* LEVIEN, R. E. / MARON, M. E.
  ON THE EXPECTED GAIN FROM ADJUSTING MATCHED TERM RETRIEVAL SYSTEMS \* SHUMMAY, R. H.
  AN ONLINE EDITOR \* DEUTSCH, L. P. / LAMPSON, B. W. 67 10 11 715
- 67 10 12

# LETTERS TO THE EDITOR

- 67 10 137
- 10
- ABACUS COMPUTATION IN NUMBER SYSTEMS OF BASES OTHER THAN TEN \* WING, J. FORMAT EFFECTORS IN 1507 AND ASCII \* PYLE, I. C. \*PANINI-BACKUS FORM\* SUGGESTED \* INGERMAN, P. Z. ADDITIONAL COMMENTS ON A PROBLEM IN CONCURRENT PROGRAMMING CONTROL \* DE BRUIJN, N. G. 67 10 3 137
- 67 10 3
- MORE ON PROCESSING 64-CHARACTER CARDS \* SCHARF, T.
  ON 'SYSTEMATIC GENERATION OF HAMILTONIAN CIRCUITS' (LETTER, INCLUDES ROBERTS AND FLORES REPLY) \* TESLER, 67 10 201
- 202 67 10
- 67 10 260
- 10 260 67
- 10 396
- L. G.
  ESC FACILITY IN USASCII \* BEMER, R. M.
  COMMENTS ON "LEVELS OF COMPUTER SYSTEMS" \* BRIDGER, D. A.
  FORTRAN SUBROUTINES FOR SCALAR PRODUCTS \* BUSINGER, P. A.
  ON FORMAT EFFECTORS \* BEMER, R. M.
  ON BULLMAN'S METHOD FOR UNSTABLE LINEAR SYSTEMS \* WRIGHT, K. 10 396 67
- 67 10 463
- 463 67 10 531
- 67 10 531
- ON BELLMAN'S METHOD FOR UNSTABLE LINEAR SYSTEMS \* WRIGHT, K.
  THOUGHTS ON CONTINUOUS CHANGE SIMULATION LANGUAGES \* TRUITT, T. D.
  BOHM AND JACOPINI'S REDUCTION OF FLOW CHARTS \* CODPER, D. C.
  COMMENTS ON TIME SHARING \* MCCARTHY, J.
  ANOTHER ASPECT OF ECONOMICAL POLYMONIALS \* CODY JR., W. J.
  PRECISION CALCULATIONS OF E AND ICITED FUNCTION) CONSTANTS \* YARBROUGH, L.
  ON 'NUMBERICAL INTEGRATION OF A FUNCTION THAT HAS A POLE (LETTER, INCLUDES EISNERS REPLY) \* SQUIRE, W.
  IMPROVEMENTS BASED ON COMPUTED ERRORS \* DE MATTEIS, A.
  A RATIONAL APPROXIMATION OPTIMAL BY MOURSUNDS CRITERION \* FIKE, C. T.
  REHARK ON LANGOON'S ALGORITHM \* ORD-SMITH, R. J.
  M IN Z. A GAME FOR MAN-MACHINE STUDIES \* NADOOR, E.
  CHARACTER CODING FOR INFORMATION PROCESSING INTERCHANGE \* PYLE, I. C.
  IMPLEMENTING PHASE-STRUCTURE PRODUCTIONS IN PL I \* POHL, I. 67 10 9 67 10 10 537
- 610 67 10 11 683
- 683
- 67 10 11 67 10 11 684
- 67 10 11 684 757

## NUMERICAL ANALYSIS

- 67 10 1 67 10 1 ON COMPUTING APPROXIMATIONS TO THE EXPONENTIAL FUNCTIONS \* CODY, N. J. / RALSTON, A. A NOTE ON THE COMPUTATION OF LEAST SQUARE POLYNOMIALS \* GOLDBERG, M.

#### DEPARTMENT INDEX

AN IMPROVEMENT TO ITERATIVE METHODS OF POLYNOMIAL FACTORIZATION \* BINGHAM, J. A. C.
INVARIANT IMBEDDING AND THE NUMERICAL INTEGRATION OF BOUNDARY—VALUE PROBLEMS FOR UNSTABLE LINEAR SYSTEMS OF
ORDINARY DIFFERENTIAL EQUATIONS \* BELLMAN, R. E. / KAGIMADA, H. H. / KALABA, R. E.
PARAMETERS FOR PSEUDO RUNGE—KUTTA METHODS \* BYRNE, G. D.
27 BITS ARE NOT ENOUGH FOR 8—DIGIT ACCURACY \* GOLOBERG, I. B.
A MODIFIED NEWTON METHOD FOR POLYNOMIALS \* CORRECTION IN APRIL 1967 P224 \* EHRLICH, L. W.
METHODS OF EVALUATING POLYNOMIAL APPROXIMATIONS IN FUNCTION ROUTINES \* FIKE, C. T.
ERROR—FREE METHODS FOR STATISTICAL COMPUTATIONS \* RODDEN, B. E.
NUMERICAL INTEGRATION OF A FUNCTION THAT HAS A POLE \* EISNER, E.
PARALLEL NUMERICAL METHODS FOR THE SOLUTION OF EQUATIONS \* SHEDLER, G. S.
A GENERALIZED BAIRSTOM ALGORITHM \* GOLUB, G. M. / ROBERTSON, T. N.
OPTIMAL STARTING VALUES FOR NEWTON—WAPHSON CALCULATION OF (CITED FUNCTION) \* MOURSUND, D. G.
ON COMPUTING THE FAST FOURIER TRANSFORM \* SINGLETON, R. S.
A STOPPING CRITERION FOR POLYNOMIAL ROOT FINDING \* ADAMS, D. A.
EIGENVECTORS OF A 2N X 2N MATRIX \* CHARMONMAN, S. 1 2 67 10 67 10 67 10 

67 10 

67 10 

67 10 10 67 10 10 

67 10

## OPERATING SYSTEMS

AN EXPERIMENTAL COMPARISON OF TIME SHARING AND BATCH PROCESSING \* SCHATZOFF, M. / TSAO, R. / WIIG, R. DAD, THE C.S.I.R.O. OPERATING SYSTEM \* AUSTIN, B. J. / HOLDEN, T. H. / HUDSON, R. H. SHARER, A TIME SHARING SYSTEM FOR THE COLO 6600 \* HARRISON, M. C. / SCHWARTZ, J. T. GEORGE 3 - A GENERAL PURPOSE TIME SHARING AND OPERATING SYSTEM \* OESTREICHER, M. D. / BAILEY, M. J. / STRAUSS, J. I.
THE LACONIQ MONITOR, TIME SHARING FOR ONLINE DIALOGUES \* DREM, D. L.
A SYSTEM ORGANIZATION FOR RESOURCE ALLOCATION \* DAHM, D. M. / GERBSTADT, F. H. / PACELLI, M. M. 67 10 

67 10 10 10 

10 11 

67 10 12 67 10 12 

#### PREGRAMMING LANGUAGES

WATFOR - THE UNIVERSITY OF WATERLOO FORTRAN IV COMPILER \* SHANTZ, P. W. / GERMAN, R. A. / MITCHELL, J. G. / SHIRLEY, R. S. K. / ZARNKE, C. R.

DITAAN - A COMPILER EMPHASIZING DIAGNOSTICS \* MOULTON, P. G. / MULLER, M. E.

A PROPOSAL FOR DEFINITIONS IN ALGOL \* GALLER, B. A. J. / PERLIS, A. J.

ONE-PASS COMPILATION OF ARITHMETIC EXPRESSIONS FOR A PARALLEL PROCESSOR \* STONE, M. S.

TOP-TO-BOTTOM PARSING REHABILITATEO \* BROOKER, R. A.

POSE, A LANGUAGE FOR POSING PROBLEMS TO A COMPUTER \* SCHLESINGER, S. / SASHKIM, L.

DIALOG, A CONVERSATIONAL PROGRAMMING SYSTEM WITH A GRAPHICAL ORIENTATION \* CAMERON, S. H. / EWING,
D. / LIVERIGHT, M.

PL I LIST PROCESSING \* LAWSON JR., H. W.

A LANGUAGE—INDEPENDENT MACRO PROCESSOR \* WAITE, W. M.

THE AED FREE STORAGE PACKAGE \* ROSS, D. \* T.

A NOTE ON COMPILING ALGORITHMS FOR ARITHMETIC EXPRESSIONS \* NAKATA, I.

A HICROPROGRAMMED IMPLEMENTATION OF EULER ON IBM SYSTEM 360 MODEL 30 \* MEBER, H.

THE REMAINING TROUBLE SPOTS IN ALGOL 60 \* KNUTH, D. E.

THE ML I MACRO PROCESSOR \* BROWN, P. J. 67 10 

67 10

10 10

#### PROGRAMMING TECHNIQUES

67 10

DATA DIRECTED INPUT-OUTPUT IN FORTRAN \* HASSITT, A.

A USE OF FAST AND SLOW MEMORIES IN LIST-PROCESSING LANGUAGES \* COHEN, J.
STRUCTURE OF A LISP SYSTEM USING TWO-LEVEL STORAGE \* BOBROW, D. G. / MURPHY, D. L.
ON THE AUTOMATIC SIMPLIFICATION OF SOURCE-LANGUAGE PROGRAMS \* CLARK, E. R.
AUTOMATIC DIMENSIONING \* KLERER, M. / MAY, J.
AN APPLICATION OF FORMAC \* CORRECTION IN MAY 1967 P299 \* NEIDLEMAN, L. D.
AN EFFICIENT PROCEDURE FOR THE GENERATION OF CLOSED SUBSETS \* WAITE, W. M.
AN ALGORITHM FOR GENERATING PRERUITATIONS \* LANGDON JR., G. G.
A SIMPLE TECHNIQUE FOR DIGITAL DIVISION \* NANDI, S. K. / KRISHNAMURTHY, E. V.
STURAGE ALLOCATION IN A CERTAIN ITERATIVE PROCESS \* ABRAMOWICH, J.
STRING PROCESSING TECHNIQUES \* MADDICK, S. E. 

67 10 67 10 

STRING PROCESSING TECHNIQUES \* MADNICK, S. E.
IMPLEMENTING PHASE—STRUCTURE PRODUCTIONS IN PL I \* IRWIN, L.
AN EFFICIENT MACHINE—INDEPENDENT PROCEDURE FOR GARBAGE COLLECTION IN VARIOUS LIST STRUCTURES \* SCHORR, 67 10 AN EFFICIENT MACHINE-INDEPENDENT PROCEDURE FOR GARBAGE COLLECTION IN VARIOUS LIST STRUCTURES \* SCHORR, H. / WAITE, W. M.

DYNAMIC COMPUTATION OF DERIVATIVES \* LESK, A. M.

A COMMENT ON INDEX REGISTER ALLOCATIONS \* LUCCTO, F.

THE ALCOR ILLINOIS 7090 7094 POST MORTEM DUMP \* BAYER, R. / GRIES, D. / PAUL, M. / WIEMLE, H. R.

ON THE NORMALIZATION REQUIREMENT OF DIVISOR IN DIVIDE—AND—CORRECT METHODS \* KRISHNAMURTHY, E. V. / NANDI,

67 10 

10 12 67 10 

S. K.

# SCIENTIFIC APPLICATIONS

A UNIFYING COMPUTATIONAL METHOD FOR THE ANALYSIS OF COMPLETE FACTORIAL EXPERIMENTS . COOPER, 8. E. 67 10

A UNIFYING COMPUTATIONAL METHOD FOR THE ANALYSIS OF COMPLETE FACTORIAL EXPERIMENTS \* CODER. 8. E. PROGRAMMING THE TABULAR METHOD OF ANALYSIS OF VARIANCE FOR FACTORIAL EXPERIMENTS \* CARMER, S. G. TESTING A RANDOM NUMBER GENERATOR \* GORENSTEIN, S.

COMPUTER REPRESENTATIONS OF PLANAR REGIONS BY THEIR SKELETONS \* PFALTZ, J. L. / ROSENFELD, A.

STAT-PACK, A BIOSTATISTICAL PROGRAMMING PACKAGE \* SHANNON, S. / HENSCHKE, C.

TENSOR CALCULATIONS ON COMPUTERS, APPENDIX \* WALTON, J. J.

AN ALGORITHM FOR GENERATING ROOT LOCUS DIAGRAMS \* KRARAL, A. M. / FORNARO, R.

ON THE COMPUTER ENUMERATION OF FINITE TOPOLOGIES \* EVANS, J. W. / HARARY, F. / LYNN, M. S.

PLOTTING A FUNCTION OF THREE INDEPENDENT VARIABLES \* STINEMAN, R. W.

ON THE REPRESENTATION OF SYMETRIC POLYNOMIALS \* MCKAY, J. K. S.

A COMPUTER TECHNIQUE FOR DISPLAYING N-DIMENSIONAL HYPEROBJECTS \* NOLL, A. M.

TELE-CUPL, A TELEPHONE TIME SHARING SYSTEM \* CONMAY, R. W. / MORGAN, H. L.

COMPUTER FORMULATION OF THE EQUATIONS OF MOTION USING TENSOR NOTITION \* HOMARD, J. C.

ALGORITHMS FOR FINDING A FUNDAMENTAL SET OF CYCLES FOR AN UNDIRECTED LINEAR GRAPH \* GOTLIEB, C. C. / CORNEIL, D. G. 67 10 D. G.

## STANDARDS

MI

A CODE FOR NON-NUMERIC INFORMATION PROCESSING APPLICATIONS IN ONLINE SYSTEMS \* MORENOFF, E. / MCLEAN, J. B. (
TOWARD STANDARDS FOR HANDWRITTEN ZERO AND OH \* BEMER, R. M.
PROPOSED USA STANDARD RECORDED MAGNETIC TAPE FOR INFORMATION INTERCHANGE (200 CPI, NZRI) \* CORRECTION IN
DECEMBER 1967 P783 \* ASA X3.2 67 10 

67 10 11 

67 10 11 PROPOSED USA STANDARD MAGNETIC TAPE LABELS FOR INFORMATION INTERCHANGE \* ASA X3.2